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**World Forum for Harmonization of Vehicle Regulations**

**Working Party on Automated/Autonomous and Connected Vehicles***

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Item 14 (a) of the provisional agenda
**Remaining activities from the former Working Party on Brake and Running Gear (handover period): Tyres**

# Proposal for a Supplement to UN Regulation No. 64 (Uniform provisions concerning the approval of vehicles with regard to their equipment which may include: a temporary-use spare unit, run-flat tyres and/or a run-flat system)

**Submitted by the experts from the European Tyre and Rim Technical Organisation****

The text reproduced below was prepared by the experts from the European Tyre and Rim Technical Organisation (ETRTO) amending UN Regulation No. 64. The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

* Formerly: **Working Party on Brakes and Running Gear (GRRF)**.

** In accordance with ECE/TRANS/274, para 52, with ECE/TRANS/WP.29/1139, para. 33 and with the programme of work of the Inland Transport Committee for 2014–2018 (ECE/TRANS/240, para. 105 and ECE/TRANS/2014/26, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

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# I. Proposal

*Title*, amend to read:

"Uniform provisions concerning the approval of vehicles with regard to their equipment which may include: a temporary use spare unit, run flat tyres **and/or a run flat system and/or extended mobility tyres**"

*Paragraph 1.*, amend to read:

"1. This Regulation applies to the approval of vehicles of category M1 and N1 when equipped with:

(a) A temporary use spare unit; and/or

(b) Run-flat tyres and/or a run-flat system **and/or**

**(c) Extended mobility tyres.**

For the purposes of this Regulation, spare wheel and tyre substitute units in the form of run-flat tyres or a run-flat system **or extended mobility tyres** in a totally deflated condition, are to be treated as being temporary-use spare units as defined in paragraph 2.10. of this Regulation."

*Insert new paragraph 2.4.5.*, to read:

"**2.4.5 "*Extended Mobility Tyre*" describes a pneumatic radial tyre designed to operate in an inflated mode and allowing the pneumatic tyre, mounted on the appropriate wheel and in the absence of any supplementary component, to provide the vehicle with the basic tyre functions at a speed of 80 km/h (50 mph) and a distance of 80 km when operating in flat tyre running mode.**"

*Paragraph 2.10.5.*, amend to read:

"2.10.5. Type 5

An assembly in which a wheel and tyre unit as defined in paragraph 2.4.3. or 2.4.4. **or 2.4.5.** is fitted to the vehicle for normal, long term road use, but used in an emergency in a totally deflated condition."

*Paragraph 5.1.5.*, amend to read:

"5.1.5. Except in the case of a run-flat/self-supporting tyres or run-flat/extended mobility system **or extended mobility tyres**, it is permitted to supply only one temporary-use spare unit with the vehicle."

*Paragraph 5.1.6.*, amend to read:

"5.1.6. In the case of vehicles equipped with run-flat/self-supporting tyres or run-flat/extended mobility system **or extended mobility tyres**, the vehicle shall also be fitted with a Run-Flat Warning System (defined in paragraph 2.13.) capable of operating within a speed range from 40 km/h to the maximum design speed of the vehicle and meeting the requirements of paragraphs 5.1.6.1. to 5.1.6.6. However, if the vehicle is fitted with a Tyre Pressure Monitoring System meeting the requirements of UN Regulation No. 141, the additional fitment of a run-flat warning system is not required."

*Annex 1.*, amend to read:

"[...]

of a vehicle type with regard to their equipment which /may include: a temporary-use spare unit, run-flat tyres and/or a run-flat system and/**or extended mobility tyres**,[2] pursuant to UN Regulation No. 64."

*Annex 1, Item 9.3.*, amend to read:

"9.3. Details of temporary-use spare unit, including wheel and tyre size designations and marking, tyre load and speed capability, run-flat tyre, **extended mobility tyre** including the maximum distance wheel offset (where different from standard unit)."

*Annex 3, Paragraph 1.5.*, amend to read:

"1.5. Except in the case of a run-flat tyre **or of an extended mobility tyre**, the tyres shall be inflated to the pressures recommended by the vehicle manufacturer for the vehicle type and loading condition. A run-flat tyre **or an extended mobility tyre** shall be tested in the fully deflated condition."

## II. Justification

The proposed amendments are intended to properly take into account and implement the changes proposed to UN Regulation No. 30 as per ECE/TRANS/WP.29/GRVA/2018/6.